

Message

From: Doug Wafer [Doug.Wafer@LA.GOV]
Sent: 10/18/2018 1:02:16 PM
To: 'Patrick H. Zahn' [pzahn@sonomatech.com]; Jennifer Zimmer [Jennifer.Zimmer@LA.GOV]; vennetta.hayes@la.gov; Yasoob Zia [Yasoob.Zia@LA.GOV]; Steve Murrell [Steve.Murrell@LA.GOV]; 7077727912@vtext.com; Shannon Saunier [Shannon.Saunier@LA.GOV]; Bob Bailey [Bob.Bailey@LA.GOV]; Jana Orillion [Jana.Orillion@LA.GOV]; Wendy Trunch [Wendy.Trunch@la.gov]; camila.tao@la.gov
CC: Forecaster Email [ForecasterEmail@sonomatech.com]
Subject: RE: Ozone Exceedance for October 13th, 2018
Attachments: ATT00001.txt; oct 13 fire map 1.jpg; oct 13 fire map 2.jpg; oct 13 fires.jpg

Good Morning,

I have been looking over the locations of the origins of each of these fire smoke plumes on and around October 13th. The ones south of Baton Rouge and north of Lake Verret are all in an agricultural area with several large farming properties near Nottoway Plantation, White Castle, Bayou Goula, and Belle Rose. Another large fire (prescribed, agricultural) was a bit east of these near the towns of Welcome and Convent. Landsat satellite photo shows active smoke for several days in that area. I think it is safe to say that these fires are prescribed agricultural fires routinely seen there this time of year. Harvest season typically runs from early October through December depending on exactly which crop is being harvested, perhaps sugar cane. Farmers will burn the field to put nitrates back into the soil after the crop has been harvested.

Doug Wafer, P.E.
LDEQ

From: Patrick H. Zahn <pzahn@sonomatech.com>
Sent: Monday, October 15, 2018 10:51 AM
To: Doug Wafer <Doug.Wafer@LA.GOV>; Jennifer Zimmer <Jennifer.Zimmer@LA.GOV>; Vennetta Hayes <Vennetta.Hayes@LA.GOV>; Yasoob Zia <Yasoob.Zia@LA.GOV>; Steve Murrell <Steve.Murrell@LA.GOV>; 7077727912@vtext.com; Shannon Saunier <Shannon.Saunier@LA.GOV>; Bob Bailey <Bob.Bailey@LA.GOV>; Jana Orillion <Jana.Orillion@LA.GOV>; Wendy Trunch <Wendy.Trunch@la.gov>; Jean Kelly (DEQ) <Jean.Kelly@LA.GOV>; Jason Meyers <Jason.Meyers@LA.GOV>; Camila Tao <Camila.Tao@LA.GOV>
Cc: Forecaster Email <ForecasterEmail@sonomatech.com>
Subject: RE: Ozone Exceedance for October 13th, 2018

Hi All,

Ozone levels in Baton Rouge last Saturday may have been enhanced by smoke from several small burns throughout the region. The image below shows Hazard Mapping System (HMS) fire detections and smoke plumes on that day, indicating direct smoke transport into Baton Rouge. Throughout that afternoon, there were moderate southeasterly winds (at least 10 mph for 4 consecutive hours). Normally, winds that strong would disperse pollutants, leading to AQI levels in the low- to mid-Moderate range. However, in this case, the winds brought smoke into the area. In addition, there may have been residual smoke from burns over the previous two days.

Please let us know if you have any questions.

Thanks,
Patrick

Patrick Zahn

Lead Forecaster

Sonoma Technology, Inc.

1450 N. McDowell Blvd., Suite 200

Petaluma, CA 94954-6515

707.665.9900

sonomatech.com

From: Doug Wafer [<mailto:Doug.Wafer@LA.GOV>]

Sent: Monday, October 15, 2018 5:45 AM

To: Forecaster; Jennifer Zimmer; Vennetta Hayes; Yasoob Zia; Steve Murrell; 7077727912@vtext.com; Shannon Saunier; Bob Bailey; Jana Orillion; Wendy Trunch; Jean Kelly (DEQ); Jason Meyers; Camila Tao

Subject: Ozone Exceedance for October 13th, 2018

I got 71.00 ppb also for ozone Saturday at Capitol, AQI of 101. – Doug

1-hour ozone readings October 2018 - Louisiana Statewide
over 70

Date	Location	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	1- Hour Max	8- Hour Max
10/13/18	BC	24	35	52	65	81	83	81	78	71	57	51	42	40	37	31	28	83	71.00

From: forecaster@sonomatech.com <forecaster@sonomatech.com>

Sent: Sunday, October 14, 2018 8:45 AM

To: forecaster@sonomatech.com; Jennifer Zimmer <Jennifer.Zimmer@LA.GOV>; Vennetta Hayes <Vennetta.Hayes@LA.GOV>; Yasoob Zia <Yasoob.Zia@LA.GOV>; Steve Murrell <Steve.Murrell@LA.GOV>; Doug Wafer <Doug.Wafer@LA.GOV>; 7077727912@vtext.com; Shannon Saunier <Shannon.Saunier@LA.GOV>; Bob Bailey <Bob.Bailey@LA.GOV>; Jana Orillion <Jana.Orillion@LA.GOV>; Wendy Trunch <Wendy.Trunch@la.gov>; Jean Kelly (DEQ) <Jean.Kelly@LA.GOV>; Jason Meyers <Jason.Meyers@LA.GOV>; Camila Tao <Camila.Tao@LA.GOV>

Subject: Louisiana Air Quality Summary

Summary for Baton Rouge for Sat. 10/13/18

Prelim. Ozone 8-hr Max (1-hr Max)

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
Pride	220330013	87	66.0/86.0
Dutchtown	220050004	80	64.0/72.0
Capital	220330009	101	71.0/83.0
Bayou Plaquemine	220470009	97	69.0/81.0
LSU	220330003	84	65.0/77.0
French Settlement	220630002	90	67.0/77.0
Carville	220470012	87	66.0/75.0
Port Allen	221210001	84	65.0/77.0

Prelim. PM_{2.5} 24-hr Average

Site	AQS Code	AQI	Conc. (µg/m ³)
Capital	220330009	57	15.1
French Settlement	220630002	56	14.4

Summary for New Orleans for Sat. 10/13/18

Prelim. Ozone 8-hr Max (1-hr Max)

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
Garyville	220950002	51	55.0/63.0
Madisonville	221030002	50	54.0/62.0
Kenner	220511001	49	53.0/62.0

Prelim. PM_{2.5} 24-hr Average

Site	AQS Code	AQI	Conc. (µg/m ³)
City Park	220710012	49	11.9
Kenner	220511001	50	12.0
Chalmette Vista	220870007	54	13.3
Madisonville	221030002	43	10.4

Summary for Shreveport for Sat. 10/13/18

Prelim. Ozone 8-hr Max (1-hr Max)

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
Dixie	220170001	32	35.0/42.0
Shreveport Airport	220150008	32	35.0/41.0

Prelim. PM_{2.5} 24-hr Average

Site	AQS Code	AQI	Conc. (µg/m ³)
Shreveport Airport	220150008	28	6.6

Summary for Lake Charles for Sat. 10/13/18**Prelim. Ozone 8-hr Max (1-hr Max)**

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
Carlyss	220190002	45	49.0/53.0
Vinton	220190009	45	49.0/51.0

Prelim. PM_{2.5} 24-hr Average

Site	AQS Code	AQI	Conc. (µg/m ³)
Westlake	220190008	36	8.6

Summary for Lafayette for Sat. 10/13/18**Prelim. Ozone 8-hr Max (1-hr Max)**

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
Lafayette	220550007	64	59.0/62.0
St. Martinville	220990001	67	60.0/64.0

Prelim. PM_{2.5} 24-hr Average

Site	AQS Code	AQI	Conc. (µg/m ³)
Lafayette	220550007	40	9.7

Summary for Monroe for Sat. 10/13/18**Prelim. Ozone 8-hr Max (1-hr Max)**

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
Monroe	220730004	37	40.0/46.0

Summary for Thibodaux for Sat. 10/13/18**Prelim. Ozone 8-hr Max (1-hr Max)**

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
Thibodaux	220570004	58	57.0/67.0

Prelim. PM_{2.5} 24-hr Average

Site	AQS Code	AQI	Conc. (µg/m ³)
Thibodaux	220570004	51	12.2

Summary for Other Monitors for Sat. 10/13/18**Prelim. Ozone 8-hr Max (1-hr Max)**

Site	AQS Code	AQI	8-hr/1-hr Conc. (PPB)
New Roads	220770001	93	68.0/89.0
Convent	220930002	50	54.0/60.0